P/N 146931

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CHEROKEE INTERNATIONAL, INC.

A SUBSIDIARY OF CORE INDUSTRIES

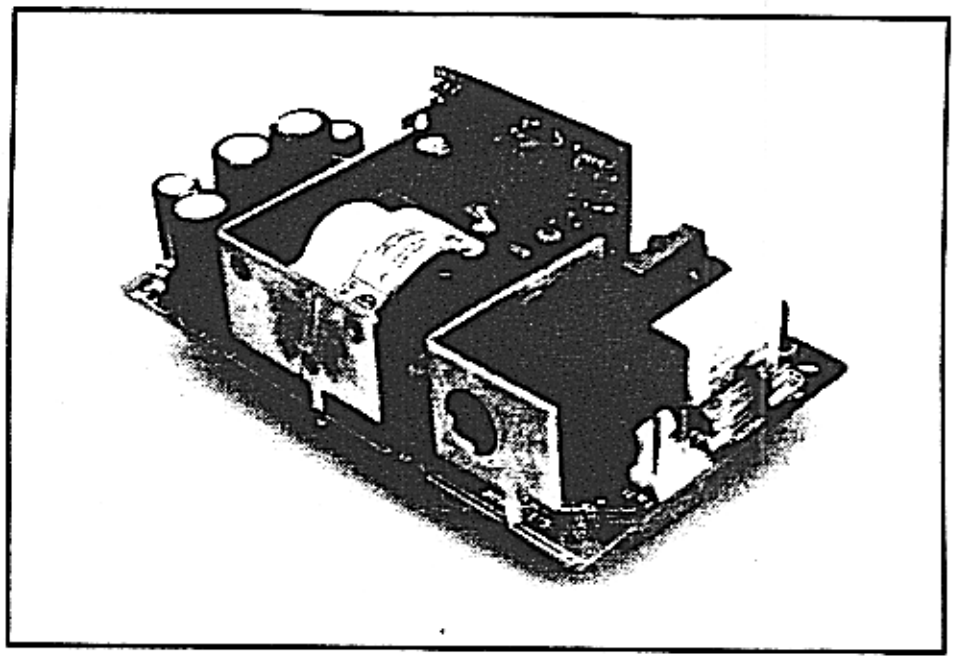
PRODUCT SPECIFICATION

QF42 Series

Multiple Output Switching Power Supplies

Features

- UL Recognized to UL 1950+
- CSA Certified to C 22.2 No. 220 - 1950+
- TUV Licensed to IEC 950 and VDE 0806+
- Fully compliant with FCC (Level B) standards for EMI
- 0°-50°C operating ambient with convection cooling only.



- AC input provisions:
  -90-264 VAC (wide range input)
  47-63Hz
  -input surge current limited
  -brown out protected
- DC output provisions:
  -complete overload protected
  -overvoltage protected
  -reverse voltage protected
  -low noise outputs

33/46 Watts Up to 3 Outputs

*Available Outputs**

Standard Output Voltage Combination	Output 1			Output 2			Output 3		
	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps	Volts	Rated Amps	Peak Amps
A	+5	5.0	6.0	+12	2.0	5.0	-12	0.5	1.0
B	+5	5.0	6.0	+15	2.0	5.0	-15	0.5	1.0
C	+5	5.0	6.0	+24	1.0	1.5	- 5	0.5	1.0
D	+5	7.0	10	-	-	-	-	-	-
E	+12	3.8	6.0	-	-	-	-	-	-

Total (sum) of rated DC output power, maximum:

Convection cooling only	33 Watts
Forced-air cooling (25 CFM)	46 Watts
Peak poower (10 sec)	72 Watts

* Other output combinations are also available; consult factory
+ Most models; consult factory

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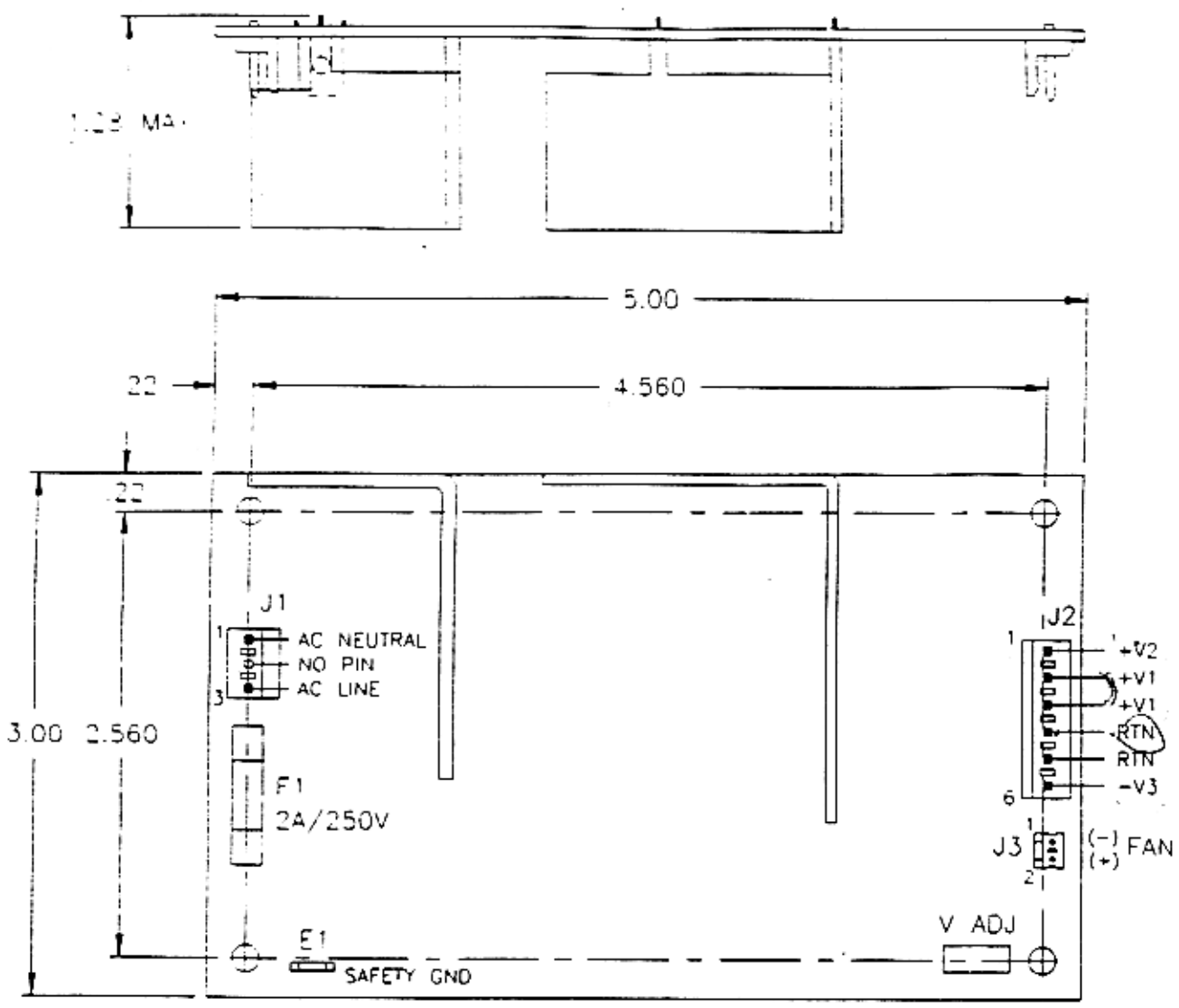
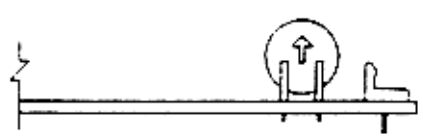
QF42 Series

Outline/Mounting/Interface



3" x 5" x 1.3"



Ordering Information

QF42 - A 1

Series

Case/Configuration

Output Combination
(See AVAILABLE OUTPUTS)

Version (1=Standard)

All Power Supplies are warranted to be free of defects in materials and workmanship for a period of one year.

Specifications

AC Input	Nominal: 120/240 VAC, 47-63Hz Range: 90-264 VAC
DC Outputs	Nominal: See AVAILABLE OUTPUTS table Range: Output 1 adjustable +/-5% Output 2 and 3 fixed. Output 2 ± 5%, Output 3 ± 10% Tracks VI
Regulation	**Line ± 0.5% all outputs full AC input range** **Load ±**

	Min I	Max I	Tolerance
Output 1 (+5V)	0.5	5	±5%
Output 2 (+12V)	0.2	2	±5%
Output 3 (-12V)	0.0	0.5	±10%

When using as a single output supply the regulation will be less than ±1%.

Ripple/Noise	Sum: 1% Pk-Pk, all outputs
Overshoot & Undershoot	Deviation: 2% for 25% load change at 5A/usec Response: 200 usec to 1% deviation, all outputs turn-on or turn-off
Temperature Coefficient	+/-0.02%/°C, all outputs
Temperature Range	Operation: 0° to 50°C at rated output power derate linearly to 50% power at 70°C Storage: -55°C to 85°C
Efficiency	65% typical
Overload Protection	All outputs current limited by primary current level, automatic recovery.
Overvoltage Protection	Output 1: output level > 6.25V +/-5%. Causes Shutdown, automatic recovery.
Reverse Voltage Protection	100% of rated current outputs
Hold-up Time	16 ms after loss of nominal AC Inputs, for specified load regulation
In-rush Current	16A Pk/120 VAC, 35A Pk/240 VAC cold start
Fusing (F-1)	2A, 5MF for 120/240 VAC
Shock/Vibration	Per MIL-STD-810C Vibration: Method 514.2 Procedures X, X1

CHEROKEE INTERNATIONAL, INC.

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